

IN THE SPECIFICATION

Please amend the paragraph beginning on page 17, line 22 and continuing to page 18, line 11 of the specification as originally filed with the following:

Each hydrogen electrode pair has a hydrogen inlet and a hydrogen outlet. The hydrogen electrode pair is made up of a first hydrogen electrode and a second hydrogen electrode. The hydrogen electrodes may be composed of an anode active material having hydrogen storage capacity. The first and second hydrogen electrodes have a hydrogen contacting surface, an electrolyte solution contacting surface, and a bulk of an active anode material. The bulk of said anode active material is disposed between the hydrogen contacting surface and the electrolyte contacting surface. The hydrogen contacting surface is adapted to dissociate and ~~adsorb~~ absorb gaseous hydrogen. The bulk of said anode active material is adapted to store said ~~adsorbed~~ absorbed hydrogen. The electrolyte contacting surface is adapted to react said stored hydrogen with an electrolyte solution.

Please amend the paragraph beginning on page 19, line 21 and continuing to page 8, line 11 of the specification as originally filed with the following:

Each oxygen electrode pair has an oxygen inlet and an oxygen outlet. The oxygen electrode pair is made up of a first oxygen

electrode and a second oxygen electrode. The first and second oxygen electrodes have an oxygen contacting surface, an electrolyte solution contacting surface, and a bulk of a cathode active material. The bulk of the cathode active material is disposed between the oxygen contacting surface and the electrolyte contacting surface. The oxygen contacting surface is adapted to dissociate and adsorb gaseous oxygen. The bulk of said cathode active material is adapted to store the adsorbed oxygen. The electrolyte contacting surface is adapted to react the stored oxygen with an electrolyte solution.

Please amend the paragraph beginning on page 38, line 12 of the specification as originally filed with the following:

The fuel cell cathodes of this invention may also utilize redox couples, particularly metal/oxides couples selected from the group of metals consisting of copper, silver, zinc, cobalt and cadmium. These types of oxygen electrodes are discussed in detail in the commonly owned ~~copending application Ser. No. 90/737,332,~~ U.S. Patent Number 6,620,539, the disclosure of which is hereby incorporated by reference.

Please amend the paragraph beginning on page 40, line 9 of the specification as originally filed with the following:

Reactive elements such as lithium may be added to the redox couple in the form of a non-reactive alloy such as a LiAl alloy. That is, lithium alone as an individual element is extremely reactive with oxygen and water vapor, therefore it is advisable to incorporate the element into the redox couple in the form of an alloy with aluminum which is not reactive in this way. Other elements which may be alloyed with the lithium include boron and silicon. Specifically the LiAl alloy is a 50:50 At. % alloy. Ga may also be added to the silver oxide. Specific examples of silver oxides containing an Li-Al alloy or Ga are shown in Table 1. ~~Such materials are disclosed in commonly owned copending application Ser. No. _____, filed _____, the disclosure of which is hereby incorporated by reference.~~